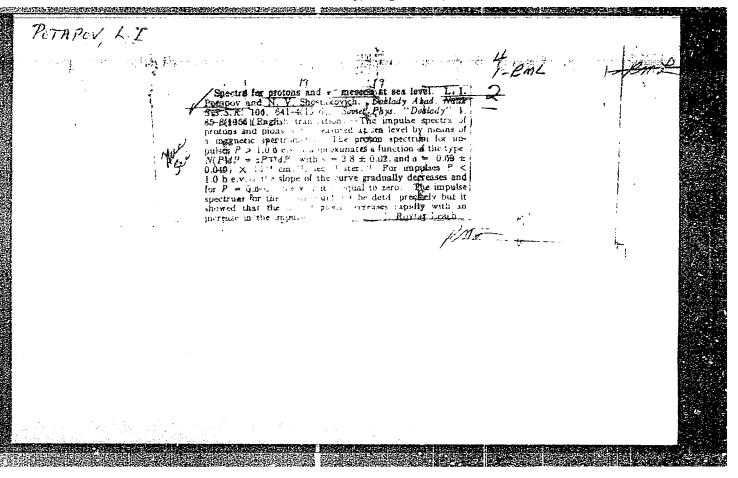
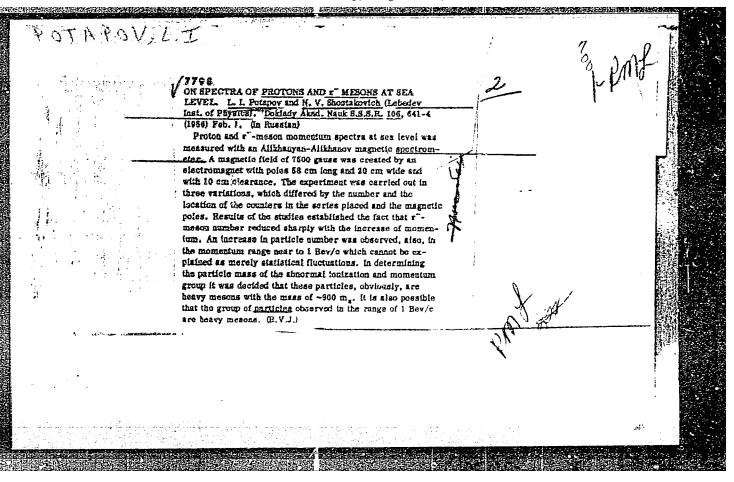
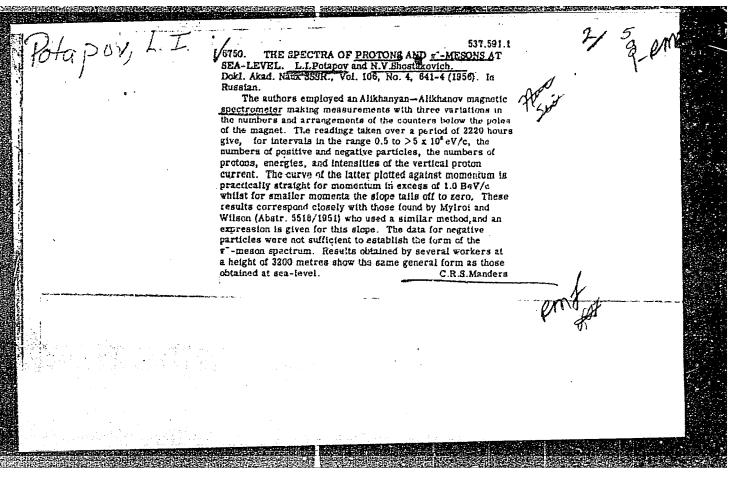
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"







POTAPOV, L.I.; SHOSTAKOVICH, N.V. [deceased]

On proton and N -meson spectra at sea level. Dokl.AM SSSR 106 no.4:641-644 P '56. (MIRA 9:6)

1.Fizicheskiy institut imeni P.N.Lebedeva Akademii nauk SSSR. Predstavleno akademikom A.I.Alikhanovym. (Protons--Spectra) (Mesons)

21(1) \$00\(\frac{56}{3}6-3-8\)/71

AUTHORS: Dayon, M. I., Potapov, L. I.

TITLE: The μ-Meson Spectrum in Underground at a Depth Corresponding

to ~ 40 m of Water (Spektr μ mezonov pod zemley na glubine,

ekvivalentnoy \sim 40 m vody)

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 697-706 (USSR)

ABSTRACT: The momentum spectra of μ -mesons at sea level and on mountains

have already been investigated by a number of authors (Refs 1-6), among others by Alikhanyan and Alikhanov. Underground, the nucleon component is rapidly absorbed and at a depth of 8-10 m the penetrating component consists of muons. It was the aim of the authors to investigate their spectrum in a depth of 40 m equivalent of water. The scheme of the experimental arrangement is shown by figure 1 and is described in short. The data concerning the counters used are clearly given by table 1. Among the total of 12 rows some hundreds of counters were arranged. The radiotechnical part of the system consisted essentially of a coincidence block and a hodoscope of the

GK-7 type. The numerous measuring results are shown in tables

Card 1/3 and diagrams. Thus, table 2 gives the obtained o-values at

sov/56-36-3-8/71

The µ-Meson Spectrum in Underground at a Depth Corresponding to-40 m of Water

H = 3300 and 6300 Oe, table 3 shows the values of the light power of the apparatus for n = 1, 2, 3. The spectra constructed in consideration of light power were produced on the basis of the assumption that n = 2. In the momentum range $p \gg 2.10^9$ eV/c the muon spectrum may be approximated by the formula $N(p)dp = N_0 dp/(p + p_0)^{\gamma}$, where $\gamma = 2.78 \pm 0.23$ and $p_o = 9.8 \text{ Bev/c}$ (Fig 5). This formula can also be used for the roughly approximated description of the spectrum in the extended range at p \lesssim 2.10 8 eV/c. The spectrum obtained permits the conclusion that the so-called anomalous muon scattering observed in a number of underground investigations can certainly not be caused by an underestimation of the number of slow muons. The authors finally thank A. I. Alikhanyan for his help, advice, and discussions, and V. Kh. Volynskiy and V. Krugovykh for their assistance rendered in the course of the experimental part of the work. They further thank S. N. Vernov, N. L. Grigorov and G. B. Khristiansen for making it possible to carry out work at the podzemnaya laboratoriya Moskovskogo gosudarstvennogo universiteta (Underground Laboratory

Card 2/3

The $\mu\text{-Meson}$ Spectrum in Underground at a Depth Corresponding to 40 m of Water

of Moscow State University). There are 6 figures, 3 tables, and 15 references, 6 of which are Soviet.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR

(Physics Institute imeni P. N. Lebedev of the Academy of Sciences, USSR)

SUBMITTED: July 30, 1958

Card 3/3

21(7) SOV/56-36-3-43/71

AUTHORS: Dayon, M. I., Potapov, L. I.

TITLE: Measurement of Harticle Masses of Cosmic Radiation Under

Ground (Izmereniye mass chastits kosmicheskogo izlucheniya

pod zemley)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 921-922 (USSR)

ABSTRACT: In the present "Letter to the Editor" the authors publish

the results obtained by underground measurements of particle masses; they used a magnetic spectrometer which at the same time served for measuring the momentum spectrum and the positive muon excess in a depth of ~40 m water equivalent. The scheme of the measuring device was already described in an earlier paper (Ref 1). Under the device was a lead block of 6 cm thickness, and under the telescope system there was a system of lead filters which were separated from one another by layers of hodoscope counters. As no precise measurements were intended, relatively thick filters (4cm) were chosen. The root mean square error in mass determination is mentioned as amounting to 30, 17, and 12% for the filters

Card 1/2 V, VI, VII respectively. The histogram determined from

SOV/56-36-3-43/71

Measurement of Particle Masses of Cosmic Radiation Under Ground

370 trajectories is shown by figure 1. All recorded positive and negative particles with 4 cm < R ≤ 16 cm were identified as μ-(or π-mesons). The particle masses observed were between 100 and 400 m_e with a maximum at 200 m_e; in one single case 500 m_e was found. The authors finally thank A. I. Alikhanyan for help, advice, and discussions, and V. Kh. Volynskiy and V. V. Krugovykh for their great help in carrying out the experimental part of the work. There are 1 figure and 3 Soviet references.

ASSOCIATION:

Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute imeni P. N. Lebedev of the Academy of

Sciences, USSR)

SUBMITTED:

July 30, 1958

Card 2/2

Potapov, L. I.

ALMESON SPECTROM AT A DEPTH OF \$\infty 40 M. NOTER ENTINCENT

MEASUREMENT OF THE MASS OF COSMIC RADIATION PARTICLES
BELOW THE SURFACE OF THE EARTH
M. I. Daiyon, L. I. Potapov

The magnetic spectrometer method was used to obtain a momentum spectrum of \angle mesons at a depth of approximately \sim 40 m. w.e. in the momentum range of $4.10^8 \sim 5.10^{10}$ ev/s.

This spectrum is compared with the Caro spectrum and other spectra measured at sea level.

The mass value for 370 particles stopped in the filter (interval of ranges - 4 cm Pb \langle R \langle 16 cm. Pb) determined by momentum and range.

The values obtained agree with the value of the mass of the \mathcal{L}_{meson} (\mathcal{T}_{-} and mesons are not resolved by the instrument).

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959.

DAYON, M.I.; VOLYNSKIY, V.Kh.; POTAPOV, L.I.

Telescope made up of spark counters in a magnetic field, and instrument for measuring the impulses of fast charged particles. Prib. i tekh. eksp. 6 no.2:47-52 Mr-Ap '61. (MIRA 14:9)

1. Fizicheskiy institut AN SSSR. (Nuclear counters)

POTAPOV, L.N.; MIKHAYLOV, V.P.; SELYAHKIN, I.T.; LOZOVSKIY, V.I.

Using professor Chinekel's shield in Baley Metellurgical Combine mines. Biul. TSIIN tavet. met. no. 21:2-6 '57. (MIRA 11:7)

(Baley--Mining engineering)

(MIRA 18:7)

BORISOV, V.T.; VINTAYKIN, Ye.Z.; POTAPOV, L.P. Determining the characteristics of the spectrum of thermal wibrations by X-ray measurements. Probl. metalloved. i fiz. met. no.8:413-422 164.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

L 15552-63 EWA(h)/EWT(1)/EPF(n)-2/EWP(q)/EWT(m)/BDS ASD/SSD 5/0181/63/005/007/1927/1932 ACCESSION NR: AP3003891 AUTHOR: Potapov, L. P. TITLE: Relationship between thermal capacity and the thermal factor of x-ray scattering SOURCE: Fizika tverdogo tela, v. 5, no. 7, 1963, 1927-1932 TOPIC TAGS: thermal capacity, x-ray, scattering, thermal factor, frequency distribution, integral transformation, spectrum, dynamic theory, crystal lattice ABSTRACT: The author believes the function of frequency distribution to be essential in relating the thermal capacity and the thermal factor of x-ray scattering, but experimental determination of this function or its computation. from a convenient model is now very difficult for many substances. He has therefore attempted to find a strict relationship between the two factors by using an arbitrary form of the frequency spectrum of a lattice by means of integral transformations. He begins with the dynamic theory of crystal lattices of Born and Huang to express thermal capacity, and from this he derives an equation to Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

L 15552-63
ACCESSION NR: AP3003891

express the relationship between the two factors. A knowledge of this relationship may be used to determine the thermal factor at low temperatures, where experimental determinations are very difficult. "In conclusion the author expresses his gratitude to V. T. Borisov, Ye. Z. Vintaykin, and D. Ye. Temkin for a number of useful discussions on this problem." Orig. art. has: 18 formulas.

ASSCIATION: Institut metallovedeniya i fiziki metallov, Moscow (Institute of Metal Research and Physics of Metals)

SUBMITTED: O8Jan63

DATE ACQ: 15Aug63

ENCL: OO
SUB CODE: PH

NO REF SOV: OO7

OTHER: OOL

L 52224-65 ENT(d)/ENT(1)/EPF(c)/EEG(k)-2/EPF(n)-2/EPR/T/ENG(c) Pr-4/Pu-4

IJP(c) WW/GS/RM

UR/0000/65/000/000/0027/0030

ACCESSION NR: AT5010253

AUTHORS: Kiriyenko, V. I.; Potapov, L. P.

31/

TITLE: Device for measuring the modulus of normal electicity at low temperature

SOURCE: Kashiny i pribory dlya ispytaniya metallov i plastmass (Machines and instruments for testing metals and plastics); sbornik statey. Moscow, Izd-vo Mashinostroyeniya, 1965, 27-30

TOPIC TAGS: cryostat, modulus of elasticity, low temperature, low temperature research/ LIG 40 generator, LV 9 2 voltmeter, alpha steel, PPTN 1 potentiometer, PP potentiometer

ABSTRACT: A device for measuring the modulus of elasticity in the temperature range +30 to -185C is described. The principle of operation of the device is described by V. I. Korotkov (Dinemicheskiye metody izmereniya modulya uprugosti. Zavodskaya laboratoriya, T. XXII, 1956, No. 1). An LIG-40 generator with a lamp voltmeter LV-9-2 source is used with the device. Standard telephone coils with 1.2-1.3 kilo-ohms resistance are used for sound wave transmission and reception. A specially designed cryostat (see Fig. 1 on the Enclosure) is used to produce low test temperatures. The operations of signal generation and transmission, as

L 52224-65

ACCESSION NR: AT5010253

well as frequency and temperature measurement, are described. Here 4 is the body of the cryostat, consisting of two parts connected by 3; I is a lid holding a steel rod 2. This rod supports holder 10 with telephone coils 6 and 9. Specimen 8 is held by three screws 7. The generator signal passes through 11 to coil 9 and follows through variable coil 6 to a voltmeter. The temperature is measured by a copper constantan thermocouple, by means of potentiometers PPTN-1 or PP. Two basic equations are used in obtaining the modulus of elasticity. The second of these equations

$$E(T) = \frac{4\Gamma^{2}_{T_{E}}\rho_{T_{E}}}{981\cdot10^{6}} \cdot e^{-\int_{T}^{E} dT}$$

relates the modulus of elasticity E(T) with the coefficient of linear expension O_{γ} , and with the length \mathbf{l}_{T_k} and area \mathbf{p}_{T_k} of the test specimen at room temperature. The results of testing the device in measuring the temperature dependence of the modulus of elasticity of «esteel are given in a plotted curve. The device is described as being quite accurate and the authors comment on means of further improving the accuracy. Orig. art. has: 2 equations and 2 figures.

ASSOCIATION: none

Card 2/4

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POTAPOV, L.F.

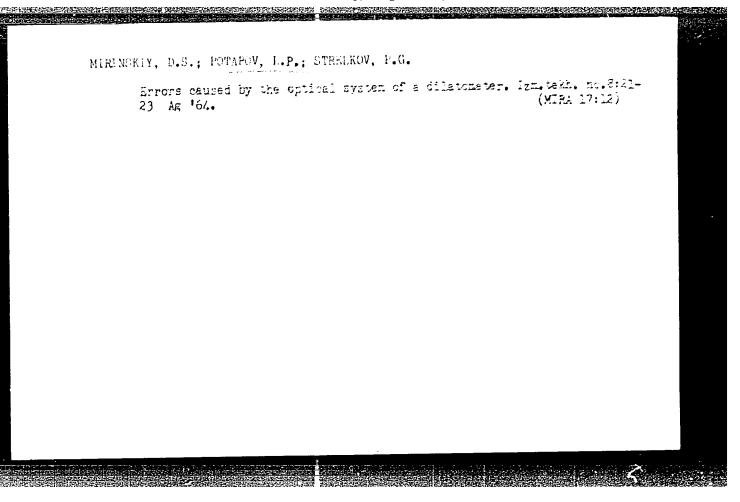
Hant factor in the X-ray intensity of certain metals (aliminim, tungsten, vanadium). Fiz. met. i metalloved. 19 no.1:131-133 Ja (MIRA 18:4)

l. Institut metaliovedeniya i fiziki metallov TSantral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii imeni Bardina.

ExT(m)/EdP(w)/EdA(d)/EFR/T/EdP(t)/EdF(k)/EdP(+)/EdP(b)/EdA(c)JD/HH Pad/Ps-4 IJF(c) UR/0126/65/019/004/0631/0633 ACCESSION NR: AP5011757 539.25 AUTHOR: Perkas, M. D.; Potapov, L. P. TITLE: Variation in the physical properties of martensite during aging SOURCE: Fizika metallov i matallovedeniye v. 19, no. 4, 1965, 631-633 TOPIC TAGS: martensite, metal physical property, aging, maraging alloy 21 11 ABSTRACT: Aging was studied in Fe-Ni martensites containing Ti or Al. Two alloys, Fe+8% Ni+1.5% Ti and Fe+8% Ni+1.5% Al, were quenched from 900°C, and then aged in the 350-600°C temperature range. This aging process increases the strength and changes such physical properties as the modulus of elasticity (E), electrical resistance (p), Vicker's hardness (HV), coefficient of thermal expansion (c), and characteristic "x-ray" temperature (θ). The curves for α , $\Delta E/E$, and HV as functions of aging temperature all show maxima. Those for ρ and θ show minima. The maxima and minima mentioned do not always coincide with the same aging temperature, but fall within a range of temperatures from 500 to 600°C. The results are explained by redistribution of the atoms in the solid solution with martensite and/or the Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

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| | okultan Malakultu adalah tali basa kepili interangan di Malakultu kepili dalam di Selah di Malakulta. Malakultu Kongalah di Agya basa dalah kalam alam 1991, ani basa dalah sebagai dalah kepili dalah sebagai dalah |
| ppearance of a new phase, | possessing a high modulus of elasticity. Electron |
| icroscope analysis of this | n foils of the Fe-Ni-Ti alloy after aging confirmed the having an ordered structure similar to CsCl. The change |
| n physical properties is | thus associated with the beginning of segregation of a |
| new phase. There are no c | changes in physical properties when Fe + 8% Ni is heated |
| n the 200-700°C range. 0 | Orig. art. has: 3 figures. |
| ASSOCIATION: Institut met | tallovedeniya i fiziki metallov TsNIIChERMET im. I. P. |
| ardina (Institute of Meta | al Science and the Physics of Metals, TsNIIChERMET) |
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BORISOV, V.T.; VINTAYKIN, Ye.Z.; POTAPOV, L.P.

Characteristics of the thermal vibration spectrum. Fiz. tver tela 5 no.9:2530-2537 S '63. (MIRA 16:10)

l. Institut metallovedeniya i fiziki metallov TSentral'nogo nauchnoissledovatel'skogo instituta chernoy metallurgii im. I.P.Bardina, Moskva.

MAMBETALIYEVA, Kaken; POTAPOV., L.P., otv. red.; BUTENKO, N.P., red. izd-va; FOFGVA, M.G., tekhn.red.

[Mode of life and culture of the Kirghiz coal miners in Kirghizistan] Byt i kul'tura shakhterov - kirgizov kamennougol'noi promyshlennosti Kirgizii. Frunze, Izd-vo AN Kirgiz.SSR, 1963. 122 p. (MIRA 17:1)

POTAPOV, L.P. Methods of measuring the heat factor in the scattering of X rays. Fig. met. i metalloved. 16.no.1:24-28 Jl '63. (MIRA 16:9) 1. Institut metallovedeniya i fiziki metallov TSentral'nogo nauchnoissledovatel'skogo instituta chernoy metallurgii. (X rays—Scattering) (Thermochemistry)

POTAPOV, L.P. Relation between heat capacity and the thermal factor of X-ray scattering. Fiz. tver. tela 5 nc.7:1927-1932 Jl '63. (MIRA 16:9) 1. Institut metallovedeniya i fiziki metallov, Moskva. (X rays—Scattering) (Heat capacity)

POTAPOV, L.P.

Cryostat for X-ray diffraction studies at low temperatures. Prib. i tekh.eksp. 7 no.1:196-197 Ja-F '62. (MIRA 15:3)

35802 5/120/62/000/001/052/061 E052/E314

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Potapov, L.P. AUTHOR:

A cryostat for low-temperature X-ray studies TITLE:

Pribory i tekhnika eksperimenta, no. 1, 1962, PERIODICAL: 196 - 197

The author describes a device for X-ray diffraction studies of various specime is in the temperature range between that of liquid N and room temperature. The apparatus is illustrated in the figure. The cooling is achieved by heattransfer between a cooling agent and the freely suspended specimen surrounded by heat-conducting gas. This method of cooling was developed by P.G. Strelkov and S.I. Novikova (Rof. 1 PTE, 1957, no. 5, 105). The first version of the present apparatus was described by P.G. Strelkov and the present author in Ref. 2 (Paper read at VNIIFTRI, 1958). The notation in the figure is as follows: 1 - body of cryostat (brass tube 60 mm in diameter); 2 - transverse slots covered with vacuum-tight celluloid film; 3 - thermal screen (copper foil);

Card 1/3

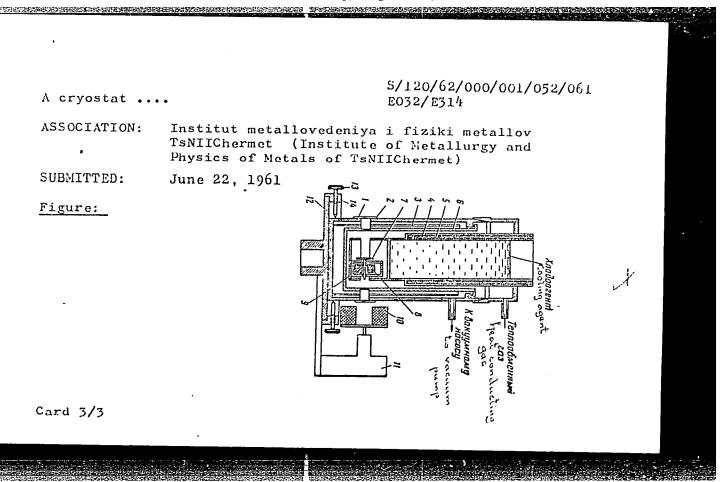
S/120/62/000/001/052/061 E032/E314

A cryostat

4 - cooler filled with cooling agent; 5 - thermal insulator (cylindrical plastic tube); 6 - perspex container (0.3 mm thick at the point where it is traversed by X-rays). This container separates the body 1 from the cooler 4 into two vacuum-tight regions; 7 - cylindrical specimen (14 mm in diameter, 0.7 - 1 mm thick). The specimen is attached to a rod which is free to rotate on agate supports; 8 - magnets attached to the rod and brought into motion by the external magnet 10 operated by the motor 1; 9 - copper lid with specimen-holder; 12, 13, 14 - specimen-adjustment device. The device can be used to measure the intensity of X-ray reflections right down to liquid N temperatures at reflection angles in the range of 15 - 85 °C. Intermediate temperatures can be obtained by using different cooling agents or by placing the cooling agent in a copper container and adjusting its position relative to the specimen. Acknowledgments to V.A. Il'ina for advice on this work. There is 1 figure.

Card 2/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

POTAPOV, M.

Use motortrucks on the by-the-job instead of by-the-hour basis. Avt. transp. 42 no. 5:35-36 My '64. (MIRA 17:5)

1. Nachal'nik otdela ekspluatatsii 19-y avtobazy Upravleniya po tsentralizovannym perevozkam stroitel'nykh gruzov Glavmosavtotransa:

POTAPOV, M.; TSIRKIN, A., inzh.-dispetcher

Mortar and concrete transportation should be centralized. Avt. transp. 41 no.9:12-13 S '63. (MIRA 16:10)

1. Nachal'nik otdela ekspluatatsii avtobazy No.19 Mosstroytransa (for Potapov). 2. Trest "Mosstroy" No.4 Glavnogo upravleniya po zhilishchnomu i grazhdanskomu stroitel'stvu v gorode Moskve Moskovskogo gorodskogo soveta deputatov trudyashchikhsya (for TSirkin).

Team for grain transportation. Avt. transp. 41 no.3123-24 Mr '63. 1. Machal'nik otdela ekspluatatsii avtobazy Mo. 19 Mosstroytransa. (Grain—Transportation)

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POTAPOV, M.

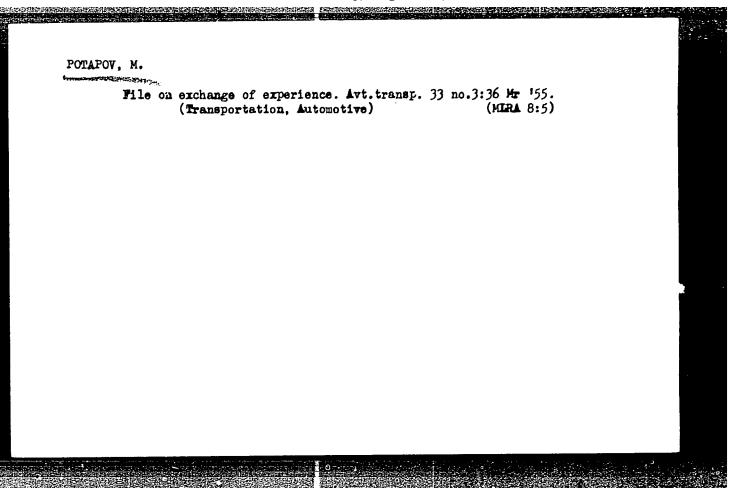
Sochimeniia (Collected Works in 3 Volumes)

Vol. 1 397 p. 1.50

Vol. 2 519 p. 1.75

Vol. 3 478 p. 1.75

So: Four Continent Book List, April 1954
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Hungary/Plant Physiology

Respiration and Metabolism H-2

Abs Jour : Referat. Zh - Biol., No 6, 25 March 1957, 22346

Author : Potapov, Maroti

Inst : Not given

Title : Synthesis of wucleic acids in the root and stem of bean

sprouts.

Orig Pub: Agrokem. es talaj., 1956, 5, No 1, 57-68

Abstract : The whole sprouts, isolated roots and stems of beans of the

Sakharnava variety were cultivated in sterile cultures on a sugared agar White medium with the addition of a yeast extract (for whole sprouts) or vitamins (for isolated organs). The length, raw and dry weight of roots and stems was determined, and also their content of P nucleic acids (by methods of Taylor-Miller and Leviba-Harrington-Bukalo) in a 12 day cultivation. The length, weight and quantity of total and nucleic acid P per organ were considerably higher for roots than for the stems in cultivations of whole sprouts as well as in those of isolated organs. The content of nucleic acids P percentage-wise of total P in cultivation of whole sprouts was higher in the stems, while for cultivations of isolated

Card 1/2 -15-

Hungary/Plant Physiology

Respiration and Metabolism

H-2

Abs Jour : Referat. Zh - Biol., No 6, 25 March 1957, 22346

organs, in the roots. The authors come to the conclusion that the capacity to synthesize nucleic acids is considerably more developed in roots than in stems. In cultivation of the whole sprout the stems evidently receive nucleic acids from the roots. This study was carried out at Budapest University. Bibl. 43 refs.

Card 2/2

-16-

BABAYANTS, Israil Sergeyevich; POTAPOV, M.A., red.; VENTSEL', I.V., red.izd-va; BELOGUROVA, T.A., tekhn. red.

[Technology of making winnings from glass insulated copper wire] Tekhnologiia nemotki isdelii mednym provodom v stekliannoi izoliatsii. Leningrad, 1963. 16 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.4)

(MINA 16:12)

(Electric insulators and insulation)

(Electric apparatus and appliances--Windings)

SOLDATKIN, M.T., dotsent, kand.tekhn.nauk; POTAPOV, M.A.; SHIMKEVICH, S.K.

Hecommended methods for ventilating fiber dyeing plants of cloth combines. Shor. nauch. trud. Bel. politekh. inst. no.74:28-47
159. (MIRA 13:8)

(Textile factories--Heating and ventilation)

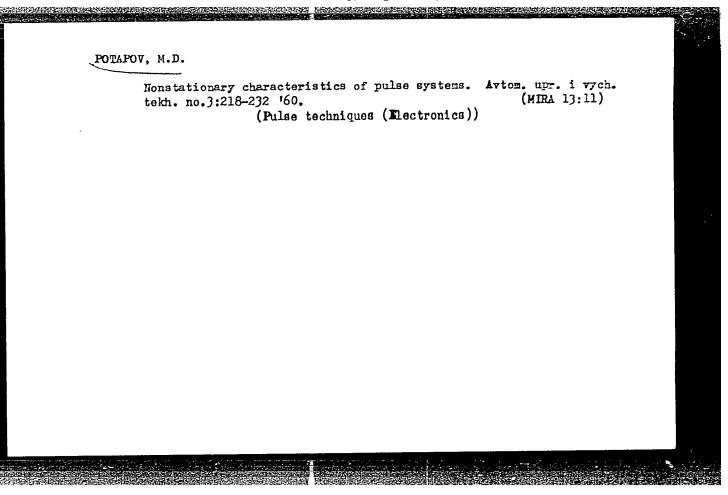
| FOTAFOV, Mikhail Aleksa: | edrovich. | |
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| District library work. prosvetitel noi lit-ry, | 3. izd., dop. i ispr. Moskva, Gos. izd-vo kul'turno- 1952. 86 j. | • |
| 1. Library science. | | |
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KOZHEVNIKOV, B.A., kand. tekhn. nauk; POTAPOV, M.A., inzh.

Fine wire in glass insulation. Vest. elektroprom. 27 no.8:59-61
Ag '56. (MLRA 10:9)

1. Lenfilial nauchno-issledovatel'skogo instituta kabel'noy promyshlennosti.

(Electric wire)



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POTAPOV, M.D.; (Moskva)

Synthesis of discrete corrective devices based on the criteria of finite control time. Avtom.i telem. 23 no.4:433-440 ap '62, (:IIRA 15:4)

(Antomatic control)
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25738 5/123/61/000/012/027/042 A004/A101

16,8000 (1031,1121,1344)

AUTHOR:

Potapov, M. D.

TITLE:

On the non-steady properties of pulse systems

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 12, 1961, 3-4, abstract 12D25 (V sb. "Avtomat. upr. i vychisl. tekhn." no. 3, Moscow,

Mashgiz, 1960, 218-232)

TEXT: It is pointed out that the utilization of Z-transformation makes it possible to investigate pulse systems, making use of the usual notions and conceptions of the theory of continuous systems. Using this transformation the author describes the effect of the moment of application of the controlling action on the pulse system processes and presents the necessary calculation formulae. He analyzes the dependence of the reaction of a similar closed pulse system on the time of disturbance application, acting directly on the input of any unit of the continuous part of the system. There are 5 figures and 3 references.

I. Alimov

[Abstracter's note: Complete translation]

Card 1/1

16,8000

s/044/61/000/008/023/039 C111/C333

AUTHOR:

Potapov, M. D.

TITLE:

On instationary properties of impulse systems

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 8, 1961, 73, abstract 8B357. ("Avtomat. upr. i vychisl. Tekhn.",

Vyp. 3, M., Mashgiz, 1960, 218-232)

TEXT: The author investigates a family of transition functions which are generated by the set of the initial values T in the interval (0,T) with the aid of a discrete selection of the process values in systems with digital apparata. Since T is bounded, the domain of the transients is bounded and depends on the ratio of the step T of the

discrete system and of the variable circuit ratio $\mathcal{T}/\mathcal{T}.$

Abstracter's note: Complete translation.

Card 1/1

S/194/61/000/009/021/053 D209/D302

16 5000

TITLE:

Potapov, M.D. AUTHOR:

On non-stationary properties of impulse systems

Referativnyy zhurnal. Avtomatika i radioelektronika, PERIODICAL:

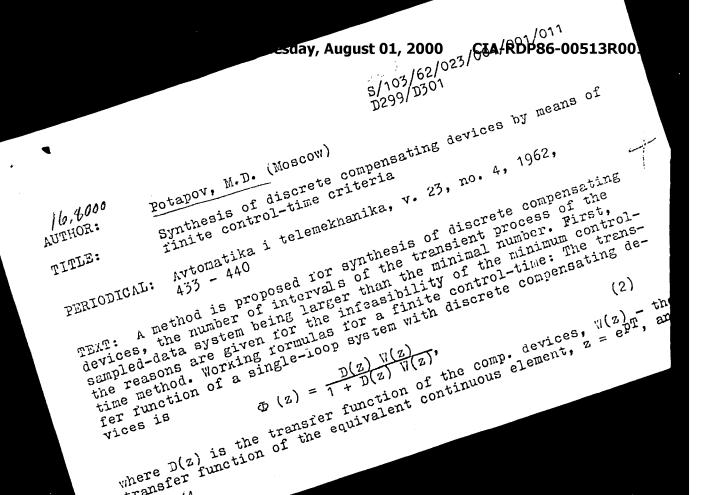
no. 9, 1961, 29, abstract 9 V242 (V sb. Avtomat. upr. i vychisl. tekhn., no. 3, M., Mashgiz, 1960, 218-232)

The effect of the moment of applying control action

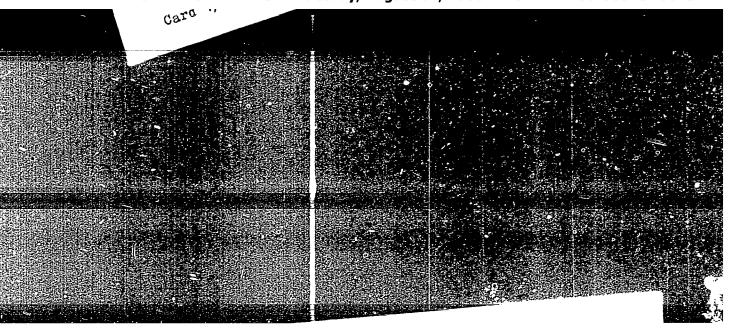
on impulse system processes is examined and necessary calculated formulae are introduced. The change of the system reaction caused by the change of moment of entry of disturbance acting directly at the input of any element of the continuous part of the system is investigated. The application of calculated relationships is illustrated on examples of simpler systems with an impulse element and a discrete correcting arrangement. [Abstracter's note: Complete translation_/

Card 1/1

| | Systems With Compressors and the Suppression of Self-Continetions by weeks of Feedbacks Williad II: Library of Congress | Fred at Anton Control System Typical of Malianes and Company Desired Typical Anton Typ. Deputability Design of Staple Optimal Solary Systems of The Second Option Before Typical Control Before T | Prince, K.D. On the Knastationary Properties of Semile-Labora Systems Sintificated. Empiresering Methods of the Linear Theory of Control Systems With Tarishie Parameters Fig. 9, A.M. Cortain Problems of the Theory of Linear Systems With Tarishie Frome-Form Daring Sandon Actions Columbia: | PURPOSE: This book is Inheaded for extentific workers, engineers, and expirate working in the field of saturation control. CORRECT: The book is the third collection of reports read at the seatour on automatic control and computer engineering of the VD priporativy and (Scientific and Technical Scienty for Instrument Makers), will the VD in Automatic (Scientific and Technical Scienty for Instrument Makers), will the VD in Control and Control and Technical Scienty for Instrument Makers (Scientific and Technical Scientific and Instrument Control and Contr | Al. of Publishing House: G.F. Polyskor: Pub. El.: T.F. Sakolova; Managing El. for Literature on Machine Building and Instrument Marine Marine Marine (Marine); N.W. Pokrymskiy, Engineeri Editorikal Bowder Fil. Sciok makes, Nov. 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, | PRACE I DOCK ENTACTOR SOFTENS. Astematichestys apravistive i Typhialitel mays tetrias, Typ.) (Astematic Control and Computer Techniques, No.)) Nancow, Mangis, 'Web, LE's revisa slip insected. 7,000 copies printel. |
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342



Synthesis of discrete compensating ... S/103/62/023/004/001/011 D299/D301

where f_i are weighting factors. An examination of Eqs. (11) and (12) shows that the polynomial $\Lambda(z)$ cannot be given arbitrarily, but should satisfy certain conditions; this in turn, yields the following condition for the finite controltime

$$t_{p} \gg (m + r - 1)T. \tag{15}$$

The design of the system amounts to calculating the coefficients of the polynomials A(z) and $D_{20}(z)$ from (11), and determination of D(z) from 2 earlier formulas. In a number of cases, the above method can be simplified, (as set forth below). Method of reducing the period of pulse repetition, while leaving the transient function unchanged: It is assumed that r=1, and q is either zero, or unity. It is shown that T can be reduced (by an integral multiple), with unchanged transient function; thereby the number of intervals increases by the same factor. Formulas are obtained which show that the step curve of the system with the reduced period T_K coincides with the curve of the original system only if the polynomial $A(z_K)$ Card 3/4

Synthesis of discrete compensating ...

S/103/62/023/004/001/01: D299/D301

satisfies certain additional (to (11)) conditions. The order of the calculations is set forth, when passing from the condition $t_p = nT$, to the condition $t_p = knT_k$. The above considerations are illustra-

ted by a numerical example. Conclusions: The transfer function Φ (z) has to satisfy certain conditions. Working formulas are obtained which make it possible to realize various transient processes and to solve the synthesis problem by using additional convenient performance-criteria. It is shown that T can be reduced by a multiple factor, with unchanged transient function; this involves recalculation of the system; the method thereby used, is set forth. The calculation reduces to simple algebraic operations. There are 2 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: 2.1. Jury, W. Schroeder, Discrete Compensation of Sampled-Data Continuous Control Systems. Appl. and Industry, no. 28, 1957; J.R. Ragazzini, Digital Computers in Feedback Systems, IRE Nation. Convent. Record, pt. 4, 1957; J.R. Ragazzini, G.F. Franklin, Sampled-Data Control Systems, N.Y., McGraw-Hill, 1958. SUBMITTED: September 19, 1961 Card 4/4

SPIVAKOVSKIY, Aleksandr Onisimovich; POTAPOV, Mikhail Gennadiyevich, kand. tekhn. nauk; ANDREYEV, Aleksey Vladimirovich, kand. tekhn. nauk; ZURKOV, P.E., prof., doktor tekhn. nauk, retsenzent; IYUBIMOV, N.G., otv. red.; IL'INSKAYA, G.M., tekhn. red.

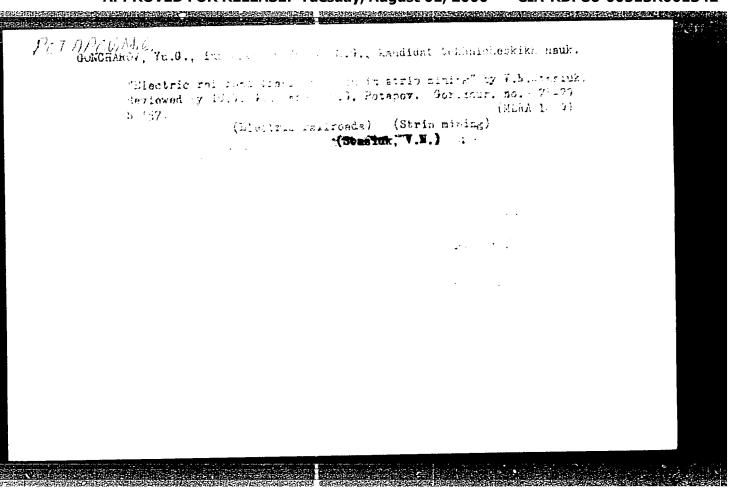
[Transportation in open-pit mines] Transport na otkrytykh razrabotkakh. Moskva, Gosgortekhizdat, 1962. 392 p. (MINA 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Spivakovskiy).

(Mine haulage)

POTAPOV, M.G., kand.tekhn.nauk.

Method of establishing electric locomotive horsepower for open pit coal mines. Nauch.trudy MGI mo.15:111-115 '55. (MIRA 10:10) (Mine railroads) (Electric locomotives)



· Protoky n.G.

Problems in the Exploitation (Cont.) 879 of Mineral Ore Deposits, Moscow, Izā-vo- AN SSSR, 1958, 251pp.

Potapov, M.G., Candidate of Technical Sciences. Operation of Open-Cut Electric Locomotives Loading Trains Directly from Excavators 231 The author presents a theoretical study of loading diagrams for electric locomotives. These concern the electromechanical characteristics of the motor in relation to the efficiency of operations. There are 4 figures and 2 tables. There are no references.

[Author not given]. Mikhail Ivanovich Agoshkov (Fiftieth Birthday Anniversary)

This is a brief biographical sketch of Professor M.I. Agoshkov, in honor of his 50th birthday. Professor Agoshkov, a distinguished mining engineer and a Corresponding Member of the Academy of Sciences, USSR, is the author of more than 50 published works. He has received a number of medals and honorific titles, among them the Order of the Red Banner of Labor and the Badge of Honor.

AVAILABLE: Library of Congress

Card 11/11

MM/sfm 12-18-58

POTAPOV, Mikhail Georgiyevich; SHUMILOV, A.N., kand. tekhn. nauk, red.;
BOBROVA, Ye.N., tekhn. red.

[Protecting railroad track from snow] Zashchita zheleznodorozhnogo
puti ot snega. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 119 p.

(Railroads--Snow protection and removal)

(MIRA 11:8)

POTAPOV, M.G. Similitude theory for calculations of electric transportation in open pit mines. Neuch.trudy MGI no. 20:315-321 '58. (MIRA 11:8) (Dimensional analysis) (Strip mining) (Mine railronds)

TALLOY ALATORTSEV, S.A., prof., doktor tekhn.nauk; ANDREYEV, A.V., kand.tekhn.nauk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; BELOUSOV, V.G., inzh.; VINNITSKIY, K.Ye., kand.tekhn.neuk; VLASOV, V.M., inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.; GLUZMAN, I.S., kand.tekhn.nauk; GUR'YEV, S.V., kand.tekhn.nauk [deceased]; DEMIN, A.M., kand.tekhn.nauk; YEGURNOV, G.P., kand. tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn. nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk; KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand. tekhn.nauk; MAZUROK, S.F., inzh.; MEL'NIKOV, N.V.; MUDRIK, N.G., inzh.; NIKONOV, G.P., kand.tekhn.nauk; ORLOV, Ye.I., inzh.; POTAPOV, M.G., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.; HZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kand. tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.; SOROKIN, V.I., inzh.; STASYUK, V.N., kend.tekhn.nauk; STAKHEVICH, Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.; TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand. tekhn. neuk; FURMANOV, B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor tekhn.nauk; TERPIGOREV, A.M., glavnyy red. [deceased]; (Continued on next card)

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ALATORTSEV, S.A.---(continued) Card 2.

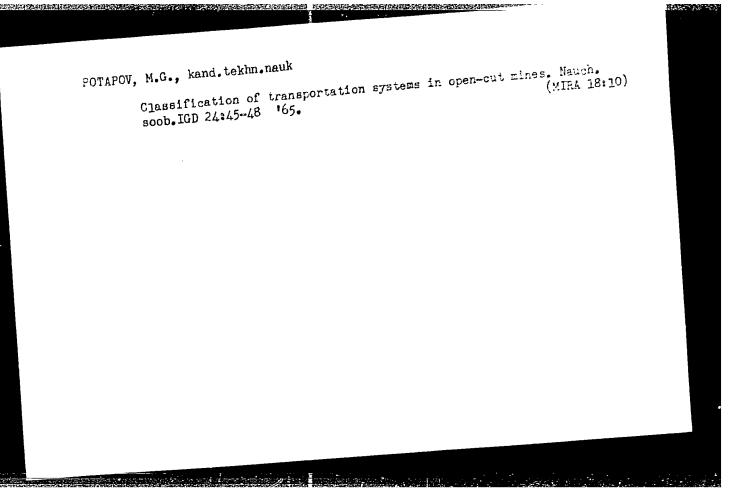
KIT, I.K., zamestitel' glavnogo red.; SHESHKO, Ye.F., zamestitel' otv.red.; BUGOSLAVSKIY, Yu.K., red.; BYKHOVSKAYA, S.M., red.; DIONIS'YEV, A.I., kand.tekhn.nauk, red.; KOZIN, Yu.V., red.; SOKOLOVSKIY, M.M., red.; YASTREBOV, A.I., red.; DEMIDYUK, G.P., kand.tekhn.nauk, red.; KRIVSKIY, M.M., kand.tekhn.nauk, red.; LYUBIMOV, B.N., inzh., red.; MOLOKANOV, P.L., inzh., red.; REISH, A.K., inzh., red.; RODIONOV, L.Ye., kand.tekhn.nauk, red.; SLA-VUTSKIY, S.O., inzh., red.; TRAKHMAN, A.I., inzh., red.; TRYMOV-SKIY, L.G., inzh., red.; FIDELEV, A.S., doktor tekhn.nauk, red.; SHUKHOV, A.N., kand.tekhn.nauk, red.; TER-IZRAEL'YAN, T.G., red. izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

ALATORTSEY, S.A. --- (continued) Cord 3.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red.A.M.Terpigorev. Chleny glav. red.A.I.Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.10. [Mining coal deposits by the open-cut method] Razrabotka ugol'nykh mestorozhdenii otkrytym sposobom. Redkolleglia toma; N.V.Mel'nikov i dr. 1960. 625 p.

1. Chlen-korrespondent AN SSSR (for Mel'nikov).

(Coal mines and mining) (Strip mining)



POTAPOV, M.G., kandidat na tekhn. nauki; MOLCHANOV, P.V., kandidat na tekhn. nauki

Conveying transport in the quarries in East Germany. Min delo 18 no.8:42-45 Ag $^{1}63$.

MEL'NIROV, N.V.; VINITSKIY, K.Ye., kand.tekhn.nauk; PUTAROV, N. .., mand.tekhn.nauk

Basic problems of continuous operation in open-pit mines. Gor. (MIRA 16:7)

2. Institut gornogo dela im. A.A.Skochinskogo, Moskva. 2. Chlenkorrespondent AN SSSR (for Mol'nikov).

(Conveying machinery)

MEL'NIKOV, M.V.; VINITSKIY, K.Ye., kand. tekhn. nauk; POTAPOV, M.G., kand. tekhn. nauk; Prinimali nchastiye: ZHUKOV, A.A.; KOSYREV, V.I.; SPIRIDONOV, V.I.

Principles of technological layouts for open-pit mines using conveyor haulage exhusively. Mauch. soob. IGD 11:3-16 '61. (MIRA 16:4)

1. Chlen-korrespondent AM SSSR (for Mel'nikov). (Conveying machinery)

POTAPOV, M.G., kandidat technickych ved

Effectiveness of beltconveyers in quarries. Uhli 4 no.3:94-96 Mr '62.

1. Hornicky institut A.A. Skocinskeho, Moskva.

MEL'NIKOV, Nikolay Vasil'yevich, akademik; SIMKIN, Boris Aleksandrovich, kand. tekhn. nauk; DEMIDYUK, Grigoriy Prokop'yevich, kand. tekhn. nauk; VINITSKIY, Konstantin Yefimovich, kand. tekhn. nauk; STAKHEVICH, Yekaterina Borisovna, inzh.; KRASNIKOV, Aleksey Sergeyevich, kand. tekhn. nauk; CHERNEGOV, Yuriy Aleksandrovich, inzh.; POTAPOV, Mikhail Gennad'yevich, kand. tekhn. nauk; CHESNOKOV, Mitrofan Mitrofanovich, kand. tekhn. nauk; NURMUKHAMEDOVA, V.F., red. izd-va; SHKLYAR, S.Ya., tekhn. red.

[Foreign technique of open-pit mining] Tekhnika otkrytykh gornykh rabot za rubezhom. Moskva, Gosgortekhizdat, 1962. 379 p. (MIRA 16:1)

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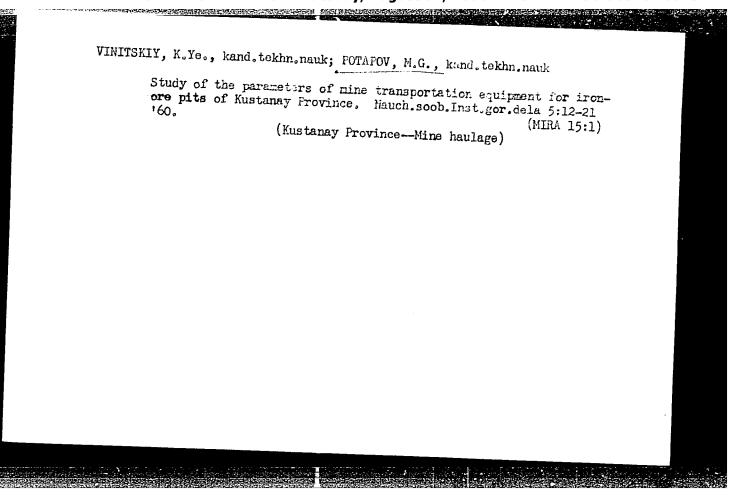
MEL'NIKOV, Nikolay Vasil'yevich, akademik; VINITSKIY, Konstantin Yefimovich; POTAPOV, Mikhail Gennadiyevich; LIKHTER, B.I., red. izd-va; NOVICHKOVA, N.D., tekhn. red.

[Principles of the continuous process of open-pit ore mining; developing the iron ore deposits of Kustanay Province]Osnovy potochnoi tekhnologii otkrytoi razrabotki mestorozhdenii; osvoenie zhelezorudrykh mestorozhdenii Kustanaia. Moskva. Izd-vo Akad. nauk SSSR, 1962. 174 p. (MIRA 15:9) (Kustanay Province-Iron mines and mining)

POTAPOV, M.G., kand.tekhn.nauk; MOLCHANOV, P.V., kand.tekhn.nauk

Expansion of conveyer transport in the open-pit mines of the German Democratic Republic. Ugol' 37 no.3:60-61 Mr '62.

(Germany, East--Mine haulage) (Conveying machinery)



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ZLOTIN, Vladimir Isaakovich; KAZHDAN, Shimon Mordukhovich; TUNKEL',
Naum Ruvimovich; SHELESHKOV, Konstantin Konstantinovich.
Prinimali uchastiye: GRIBANOV, A.F.; OL'KHOV, V.I.;
POTAPOV, M.G., kand. tekhn. nauk, retsenzent; NURMUKHAMEDOVA,
V.F., red. izd-va; OVSEYENKO, V.G., tekhn. red.

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izd-vo lit-ry po gornomu delu, 1962. 309 p. (MIRA 15:5)

(Mine railroads) (Strip mining)

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RZHEVSKIY, V.V., prof.,dokt.tekhn.nauk; BUYANOV, Yu.D., kand.tekhn.nauk; VASIL'YEV, Ye.I., kand.tekhn.nauk; DEMIN, A.M., kand.tekhn.nauk; KULESHOV, N.A., kand.tekhn.nauk; MEN'SHOV, B.G., kand.tekhn.nauk; NEVSKIY, V.N., kand.tekhn.nauk; POTAPOV, M.G., kand.tekhn.nauk; RODIONOV, L.Ye., kand.tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SUKHANOVA, Ye.M., kand.tekhn.nauk; YUMATOV, B.P., kand.tekhn.nauk; KHOKHHYAKOV, V.S., kand.tekhn.nauk; ALEKSANDROV, N.N., gornyy inzh.; ARISTOV, I.I., inzh.; BUGOSLAVSKIY, Yu.K., gornyy inzh.; D.Z., inzh.; ONOTSKIY, M.I., inzh.; STAKHEVICH, Ye.B., inzh.; GEYMAN, L.M., red.izd-va; MAKSIMOVA, V.V., tekhn. red.; KONDRAT'YEVA, M.A., tekhn. red.

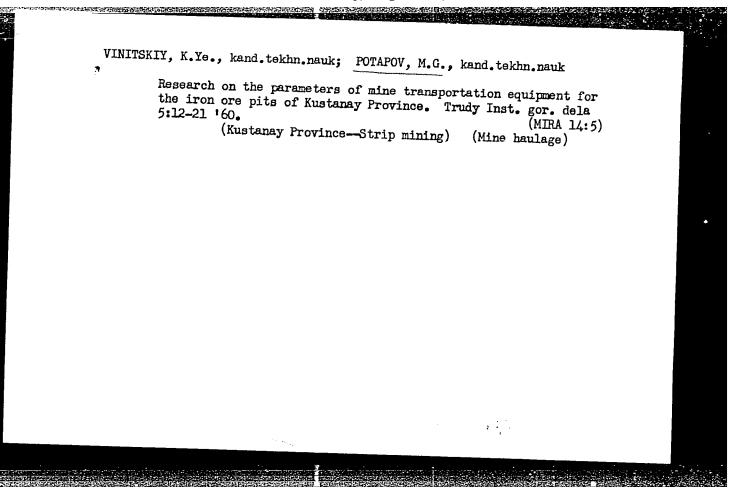
[Handbook for the strip-mine foreman] Spravochnik gornogo mastera kar'era. Pod red. V.V.Rzhevskogc. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 572 p. (MIRA 14:12)

KRIVOSHOV, E., student V kursa; POTAPOV, M.G., kand.tekhn.nauk

Choosing a practical transportation system for the Kedrovka
deposit. Nauch. rab. stud. GNSO MGI no.7:93-107 1959.

(MIRA 14:5)

(Kedrovka region(Kemerovo Province)—Mining haulage)



GEY, N.N., kand.tekhn.nauk; POTAPOV, M.G., inzh.; LITVINSKIY, I.A., inzh.

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1. Kiyevqrgtekhstroy (for Gey). 2. Glavkiyevstroy (for Potapov).
3. Derevoobrabatyvayushchiy zavod No.1 (for Litvinskiy).

(Lumber--Drying)

SPIVAKOVSKIY, A.O.; MEDVEDEV, L.G.; POTAPOV, M.G.; D'YAKOV, V.A.

Prospects of expansion and ways of improving conveyer-transportation in open-pit mining. Ugol' 36 no.2:17-21 F'61. (MIRA 14:2)

(Strip mining) (Conveying machinery)

MEL'NIKOV, N.V.; VINITSKIY, K.Yo., kand.to'thm.nauk; MCARW, M.G., kand. tekhn.nauk

Cver-all mechanization of large open pits. Mekh.i avton. proizv. 15 no.2:30-32 F '61. (MIRA 14:2)

1. Chlen-korrespondent AN SSSR (for Mel'nikov). (Mining engineering—Technological innovations)

POTAPOV, M.G., kand.tekhn.nauk

Equipment for open-pit mine haulage in foreign countries. Gor. zhur. no.10:54-58 0 160. (MIRA 13:9)

1. Institut gornogo dela AN SSSR, Lyubertsy Moskovskoy oblasti.

(Mine haulage--Equipment and supplies)

(Strip mining--Equipment and supplies)

KHOKHLOV, Yevgoniy Anstol'yevich, inzh.; SOROKIN, Vladimir Ivanovich, inzh.;

POTAPOV, M.G., otv.red.; KOLOMITESV, A.D., red.izd-vs; BERESLAV
SKAYA, L.Sh., tekhn.red.; BOLDTREVA, Z.A., tekhn.red.

[Blectric traction in strip mines] Blektricheskais tiaga ns ugol'nykh kar'erakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu
delu, 1960. 407 p. (MIRA 13:9)

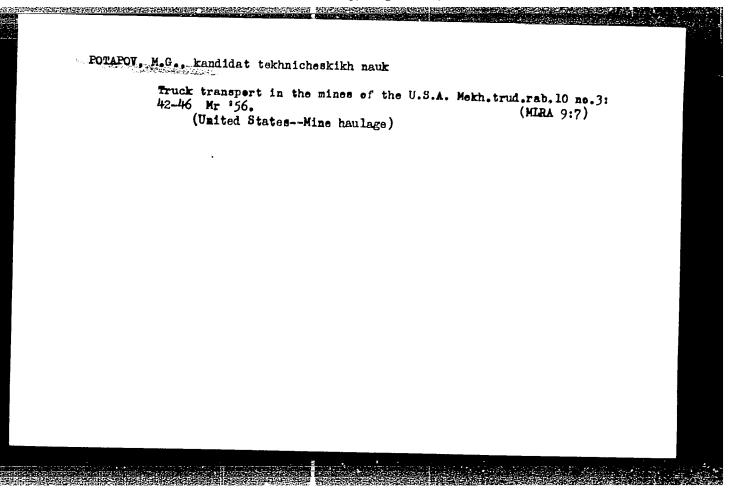
(Mine railroads)

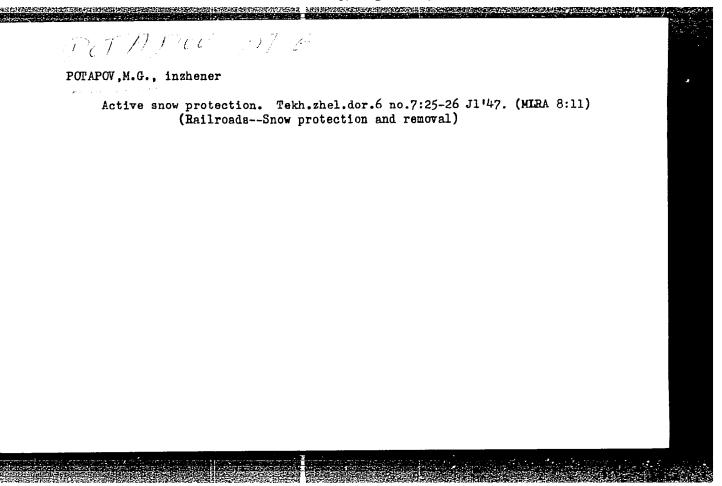
MEL'NIKOV, N.V.; VINITSKIY, K.Ye., kand.tekhn.neuk; POTAPOV, M.G., kand.tekhn.neuk; USKOV, A.A., red.; POKHOVSKIY, M.A., red.; RZHEVSKIY, V.V., red.; SOKOLOVSKIY, M.M., red.; DAVIDENKO, Yu.K., red.; YASTREBOV, A.I., red.; KAUFMAN, A.M., red.izd-va; LOMILINA, L.N., tekhn.red.

[Prospects for the use of rotating excavators in U.S.S.R. open-pit mines] Perspektivy primeneniia rotornykh ekskavatorov na otkrytykh razrabotkakh SSSR. Pod red. N.V.Mel'nikova.

Moskva, Ugletekhizdat, 1959. 175 p. (MIRA 12:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy nauchno-tekhnicheskiy komitet. (Excavating machinery) (Strip mining)





POTAPOV, M.G., kandidat tekhnicheskikh neuk.

Basic parameters for electric locomotives in coal mines. Ugol'
31 no.6:27-31 Je '56. (MLRA 9:8)

(Electric locomotives) (Mine railroads)

PÔTAPÔV, M. G. PA 28^T50

USSR/Ingineering

Jul 1947

Snow

Walls, Retaining

"Retaining Walls for Snow," M. G. Potapov, 2 pp

"Tekh Zheleznykh Dorog" No 7

The author discusses a retaining wall built on a principle which utilizes the force of the wind to blow the snow over the point to be kept opened. Presents vector diagrams of the process and gives some photographs of this type of retaining wall in actual service. Constructions like this can be used only in localities where there are steady, strong prevailing winds.

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"The Deterring for of the Posts lar mater. of Mactriffed will g Stock for Open-Fit Coal Mining." Gand Tech Sei, Mascow Mining Inct Leed I.V. Stalin, 4 Nav 54. (W., 22 Get 54)

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TYMOVSKIY, Leonid Georgiyevich; GRAVE, Ivan Platonovich; POTAPOV V.Q.
otvetstvennyy redaktor; KOLOMIYISEV, A.D., redaktor izdatel'stva;
KOROVENKOVA, Z.L., tekhnicheskiy redaktor

[Mine haulage] Kar'ernyi transport. Moskva, Ugletekhizdat, 1957.
358 p. (Mine haulage) (Strip mining)

28(1)

SOV/118-59-1-12/16

AUTHORS:

Mel'nikov, N.V., Corresponding Member of the AS USSR,

Vinetskiy, K.E. and Potapov, M.G., Candidates of

Technical Sciences.

TITLE:

On the Use of Continuous-Motion Equipment in the Open

Mining Pits (O primenenii cborudovaniya nepreryvnogo

deystviya na otkrytykh gornykh razrabotkakh)

PERIODICAL:

Mechanizatsiya i Avtomatizatsiya Proizvodstva, 1959,

Nr 1, pp 46-50 (USSR)

ABSTRACT:

The authors emphasize the need to establish various systems of rotor excavators, adaptable for use in severe climatic conditions and to design continuous—motion conveyer equipment. They describe the advantages of rotor excavators compared with chain excavators, especially when they are utilized in conjunction with the above—mentioned conveyer equipment. As background information, the authors mention output figures and locations of old coal and ore basins and deposits,

Card 1/3

507/118-59-1-12/16

On the Use of Continuous-Motion Equipment in the Open Mining Pits

and of new basins and deposits to become operative within the next 10 years (table 3 on page 49). These new deposits will need about 408 additional excavators including 312 of the rotor type. Introduction of extensive continuous-motion conveyer equipment can eliminate the need for about 1,000 dump+trucks, a great deal of other transport and equipment and over 1,500 km of other transport and equipment and over 1,500 km of railroad tracks. A complex unit of such type, of 3,000 m²/h capacity, has already been designed by the Novo-Krematorskiy mashinostroitel nyy zavod (Novo-Kramatorsk Machine Building Plant). Regarding new developments: The Yizhnyy gornoobogatitel nyy kombinat (The Southern Ore-Carentation Combine) has been put into service in the Krivoy Rog Basin. Its annual capacity will reach 9,000,000 tons. The Lebedinskiy and the Mikhaylovskiy open coal mines of the Kursk Magnitnaya Anomaliya (Kursk Magnetic Anomaly) will be put into operation in 1960.

Card 2/3

SOV/118-59-1-12/16

On the Use of Continuous-Motion Equipment in the Open Mining Pits

Their capacity is expected to reach 10,500,000 tons per year. The construction of a new Chernomorskiy Rudnik (Black Sea Mine) of about 5,000,000 tons annual capacity is planned in the area of the Kerch Iron Ore Basin. Soon, open ore pits will be opened in the Lisakovskiy, Sarbayskiy, Kacharskiy and Ayatskiy deposits in the Kazakhskaya SSR. It is estimated that their capacity will exceed 30,000,000 tons per year. Further, open manganese ore pits will be opened up in the Mikopol Basin; by 1965 they are expected to have produced 70-80% of the whole output of manganese ores obtained in that basin. There are 4 tables, 2 diagrams.

Card 3/3

POTAPOV, Mikhail Gennadiyevich, kand. tekhn. nauk; STAKHEVICH, Ye.B.,
inzh., retsenzent; KRASAVIN, V.A., inzh., retsenzent;
BYKHOVSKAYA, S.N., red.izd-va; MAKSIMOVA, V.V., tekhn. red.

[Open-pit mine haulage] Kar'ernyi transport. Izd.2., perer. i
dop. Moskva, Cosgortekhizdat, 1963. 296 p. (MIRA 16:10)

(Mine haulage)

(Strip mining--Equipment and supplies)

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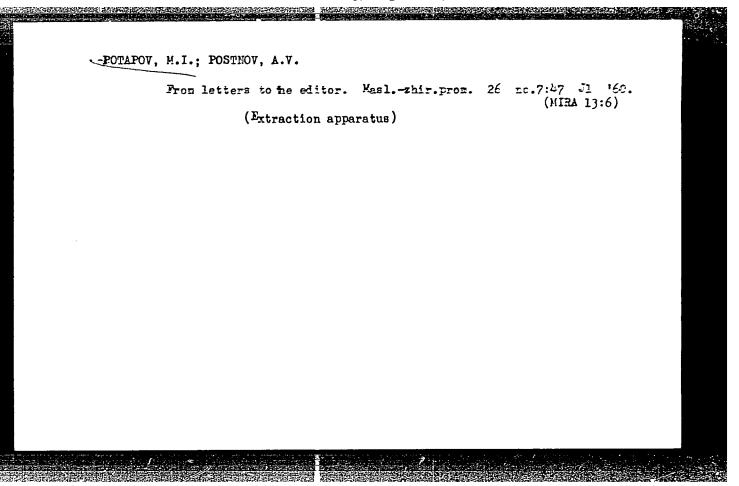
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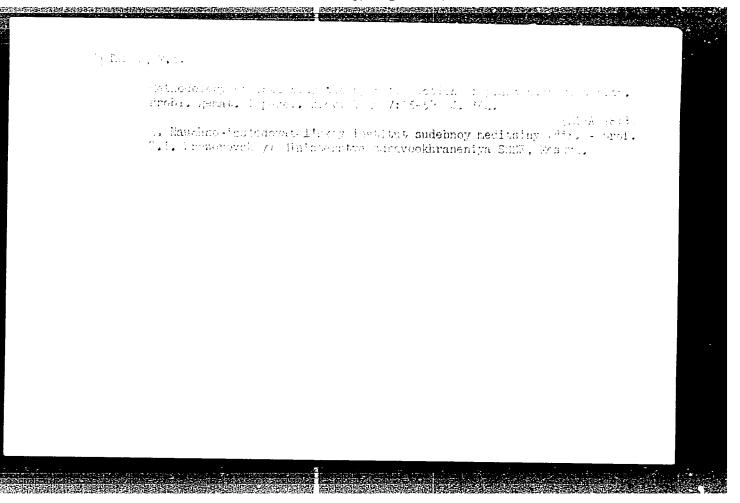


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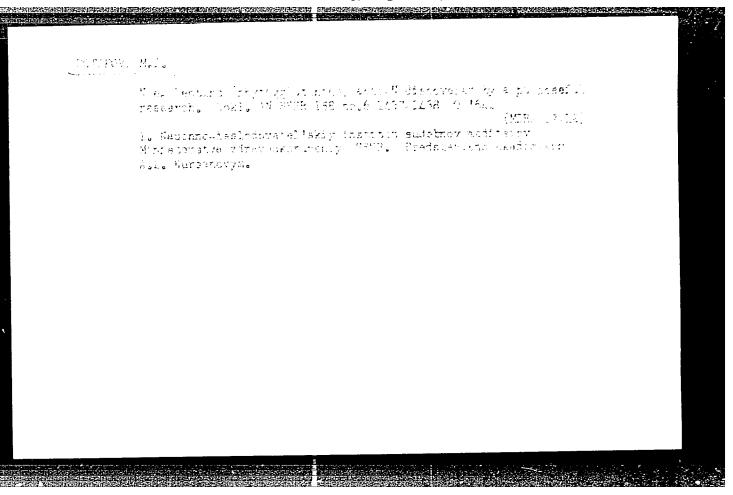
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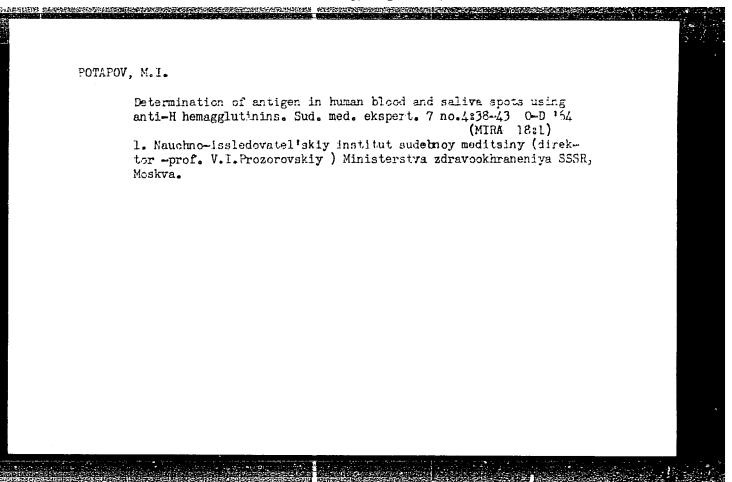
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